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Chemical Laboratory - Kao.,SGS Taiwan Ltd.

Test Report

No. : KU/2018/60052 Date : 2018/07/09

FORMOSA PLASTICS CORPORATION
NO. 1, SHIHHUA 1ST RD., LINYUAN DISTRICT, KAOHSIUNG CITY 832, TAIWAN (R.O.C.)

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By	:	FORMOSA PLASTICS CORPORATION
Sample Description	:	POLYPROPYLENE TERPOLYMER
Style/Item No.	:	5018,5020,5030,5050,5050M,5050R,5050S,5060
Sample Material	:	100%聚丙烯共聚物
Sample Receiving Date	:	2018/06/20
Testing Period	:	2018/06/20 TO 2018/07/09

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Test Requested : As specified by client, the sample(s) was/were tested with reference to Commission Regulation (EU) No. 10/2011 with amendments and hence Article 3 of European Regulation No. 1935/2004. Please refer to result table for testing item(s).

Test Result(s) : Please refer to following pages.

Ray Chang Ph.D. / Manager - Tech
Signed for and on behalf of
SGS Taiwan Limited

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Test Result(s)

PART NAME No.1 : WHITE PLASTIC SHEET

PASS

Test Item(s)	Unit	Method	MDL	Result No.1	Limit
Overall migration (3% Acetic Acid)	mg/dm²	With reference to EN 1186 (2002). (40℃ for 10 days)	3.0	n.d.	10
Substitute Test (95% ethanol)	mg/dm²		3.0	3.47	10
Substitute Test (Isooctane)	mg/dm²	With reference to EN 1186 (2002). (20℃ for 2 days)	3.0	11.1	10
Barium(Ba)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (3% Acetic acid, 40℃, 10 days)	0.25	n.d.	1
Cobalt(Co)	mg/kg		0.01	n.d.	0.05
Copper(Cu)	mg/kg		0.25	n.d.	5
Iron(Fe)	mg/kg		0.25	n.d.	48
Lithium(Li)	mg/kg		0.5	n.d.	0.6
Manganese(Mn)	mg/kg		0.25	n.d.	0.6
Zinc(Zn)	mg/kg		0.5	n.d.	5
Aluminum (Al)	mg/kg		0.25	n.d.	1
Nickel (Ni)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-MS. (3% acetic acid, 40℃, 10 days)	0.01	n.d.	0.02
Specific migration of Primary Aromatic Amine (PAA)	mg/kg	With reference to EN 13130-1 (2004) and BfR recommendation XXI. Analysis was performed by UV-vis Spectrophotometer. (3% acetic acid, 40℃, 10 days)	0.002	n.d.	0.01 (▲1)

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Remark :

- (▲1) : Limit is according to Council of Europe Resolution AP (2004) 4.
- The reproducibility (R) of fatty food simuiants is 3.7mg/dm² or 22.2mg/kg according to EN 1186-2(2002) Annex F.
- Substitute Test: Test Condition of OM2 in (EU) No 10/2011 is specified by client and conventional condition for the substitute tests instead of OM2 is based on EN 1186-1 and EN 13130-1.

Test condition with simulant D2	Test condition with simulant ethanol 95%	Test condition with simulant iso-Octane
10 day at 40℃	10 day at 40℃	2 day at 20℃

Note :

1. mg/kg = ppm ; mg/dm² = milligram per square decimeter ;
2. MDL = Method Detection Limit
3. n.d. = Not Detected = below MDL
4. ℃ = degree Celsius
5. Test condition & simulant were specified by client.
6. The PAA test was subcontracted to other SGS Laboratory.

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*** The tested sample / part is marked by an arrow if it's shown on the photo. ***

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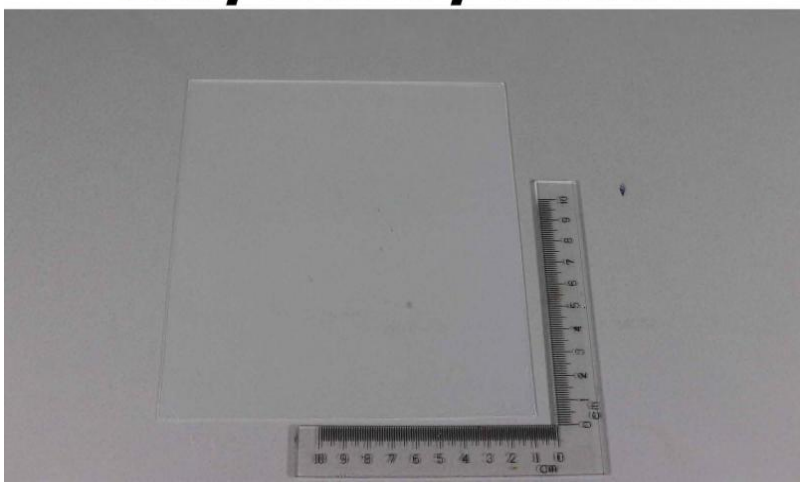

** End of Report **

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